

Title (en)

PRIMED SIPHONIC FLUSH TOILET

Title (de)

TOILETTE MIT GRUNDLEGENDER SIPHONSPÜLUNG

Title (fr)

TOILETTES À CHASSE D'EAU À ACTION SIPHONIQUE AMORCÉE

Publication

**EP 2923001 A4 20170222 (EN)**

Application

**EP 13855884 A 20131113**

Priority

- US 201261725832 P 20121113
- US 201361810664 P 20130410
- US 2013069961 W 20131113

Abstract (en)

[origin: WO2014078461A2] A siphonic flush toilet system and method of priming the same having a toilet bowl assembly comprising at least one jet flush valve assembly and at least one rim valve; and bowl having a rim and a jet defining at least one jet channel, the at least one jet channel having an inlet port and a jet outlet port configured for discharging fluid to a sump area, wherein the sump area is in fluid communication with a trapway. The bowl has a closed jet pathway including the jet channel and extending from the jet flush valve assembly outlet to the jet channel outlet port to maintain the jet channel in a primed state with fluid from the jet flush valve assembly so as to assist in preventing air from entering the closed jet pathway. Flush valves are also disclosed having back-flow preventer mechanisms and/or at least partly flexible valve covers for use with the toilet systems and methods herein.

IPC 8 full level

**E03D 11/08** (2006.01); **E03D 1/14** (2006.01); **E03D 1/30** (2006.01); **E03D 11/02** (2006.01); **E03D 11/06** (2006.01); **E03D 11/13** (2006.01)

CPC (source: EP US)

**E03D 1/145** (2013.01 - EP US); **E03D 1/306** (2013.01 - EP US); **E03D 11/02** (2013.01 - EP US); **E03D 11/06** (2013.01 - EP US); **E03D 11/08** (2013.01 - EP US); **E03D 11/13** (2013.01 - EP US); **E03D 2201/20** (2013.01 - EP US); **E03D 2201/30** (2013.01 - EP US); **E03D 2201/40** (2013.01 - EP US)

Citation (search report)

- [X] GB 1449062 A 19760908 - CLAUDE RAGOT ETS, et al
- [XI] US 1939118 A 19331212 - HINSDALE WINFIELD E
- See references of WO 2014078461A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2014078461 A2 20140522; WO 2014078461 A3 20140717;** AU 2013344755 A1 20150528; AU 2013344755 B2 20170615; CA 2891337 A1 20140522; CA 2891337 C 20201027; CA 3077076 A1 20140522; CA 3077076 C 20220412; CN 104854282 A 20150819; CN 104854282 B 20180612; CR 20150243 A 20150901; EP 2923001 A2 20150930; EP 2923001 A4 20170222; EP 2923001 B1 20200805; HK 1213030 A1 20160624; JP 2016501326 A 20160118; JP 2019049192 A 20190328; JP 2020172857 A 20201022; JP 6427102 B2 20181121; JP 6766119 B2 20201007; JP 6997835 B2 20220118; KR 20150092106 A 20150812; MX 2015006048 A 20151201; MX 362078 B 20190107; US 10145097 B2 20181204; US 11124957 B2 20210921; US 11840832 B2 20231212; US 2015197928 A1 20150716; US 2019071857 A1 20190307; US 2020190784 A1 20200618

DOCDB simple family (application)

**US 2013069961 W 20131113;** AU 2013344755 A 20131113; CA 2891337 A 20131113; CA 3077076 A 20131113; CN 201380059416 A 20131113; CR 20150243 A 20150511; EP 13855884 A 20131113; HK 16100935 A 20160128; JP 2015542041 A 20131113; JP 2018198365 A 20181022; JP 2020125025 A 20200722; KR 20157012559 A 20131113; MX 2015006048 A 20131113; US 201514619989 A 20150211; US 201816178837 A 20181102; US 202016796321 A 20200220